

## Storm Data and Unusual Weather Phenomena - February 2014

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

### ILLINOIS, Northwest

(IL-Z018) PUTNAM, (IL-Z025) HENDERSON, (IL-Z026) WARREN, (IL-Z034) HANCOCK, (IL-Z035) MCDONOUGH

|                    |   |              |
|--------------------|---|--------------|
| 02/01/14 00:00 CST | 0 | Winter Storm |
| 02/01/14 12:00 CST | 0 |              |

A storm system moved from the southern Plains to the Great Lakes region the night of January 31st into the morning hours of February 1st. This storm system brought light snow to areas along and north of I-80, with moderate to heavy snowfall to parts of southeast Iowa, northeast Missouri, and west central Illinois. Snowfall totals ranged from 2 inches along the Highway 20 corridor to 7 inches in northeast Missouri and west central Illinois.

(IL-Z015) ROCK ISLAND, (IL-Z016) HENRY, (IL-Z017) BUREAU, (IL-Z018) PUTNAM, (IL-Z024) MERCER, (IL-Z025) HENDERSON, (IL-Z026) WARREN, (IL-Z034) HANCOCK, (IL-Z035) MCDONOUGH

|                    |   |              |
|--------------------|---|--------------|
| 02/04/14 13:00 CST | 0 | Winter Storm |
| 02/05/14 14:00 CST | 0 |              |

A large winter storm system tracked across the Midwest the evening of February 4th and morning of February 5th. This system brought a long duration snow event to the area with the heaviest snowfall amounts across southeast Iowa, northeast Missouri, and west central Illinois. Blowing and drifting snow was also common with brisk north winds.

(IL-Z025) HENDERSON, (IL-Z026) WARREN, (IL-Z034) HANCOCK, (IL-Z035) MCDONOUGH

|                    |   |                |
|--------------------|---|----------------|
| 02/17/14 05:00 CST | 0 | Winter Weather |
| 02/17/14 13:30 CST | 0 |                |

(IL-Z001) JO DAVIESS, (IL-Z002) STEPHENSON, (IL-Z007) CARROLL, (IL-Z009) WHITESIDE, (IL-Z015) ROCK ISLAND, (IL-Z016) HENRY, (IL-Z017) BUREAU, (IL-Z018) PUTNAM

|                    |   |              |
|--------------------|---|--------------|
| 02/17/14 06:00 CST | 0 | Winter Storm |
| 02/17/14 16:00 CST | 0 |              |

A winter storm system moved across the Midwest on Monday February 17, Washington's Birthday Holiday (Presidents' Day), bringing periods of heavy snow, sleet, and freezing rain to the region. Widespread snowfall amounts of 2 to 6 inches were common across the area, with some locally higher and lower totals. The Quad Cities recorded its snowiest Washington's Birthday Holiday ever by measuring 5.9 inches of snow. In addition, much of Southeast Iowa, Northeast Missouri, and Western Central Illinois saw some freezing rain, which resulted in a tenth to a half an inch of ice accumulations. This caused some power outages and made travel hazardous. By late afternoon, temperatures south of Interstate 80, where the icing took place, had risen into the middle 30s to lower 40s melting much of the ice and snow.

(IL-Z001) JO DAVIESS

|                    |   |                       |
|--------------------|---|-----------------------|
| 02/21/14 00:30 CST | 0 | High Wind (MAX 51 kt) |
| 02/21/14 00:30 CST | 0 |                       |

A trained spotter recorded a 59 mph peak gradient wind gust during the early morning hours of February 21. The time was estimated based off of surrounding observations.

### IOWA, East Central and Southeast

(IA-Z089) DES MOINES, (IA-Z098) VAN BUREN, (IA-Z099) LEE

|                    |   |              |
|--------------------|---|--------------|
| 02/01/14 00:00 CST | 0 | Winter Storm |
| 02/01/14 12:00 CST | 0 |              |

A storm system moved from the southern Plains to the Great Lakes region the night of January 31st into the morning hours of February 1st. This storm system brought light snow to areas along and north of I-80, with moderate to heavy snowfall to parts of southeast Iowa, northeast Missouri, and west central Illinois. Snowfall totals ranged from 2 inches along the Highway 20 corridor to 7 inches in northeast Missouri and west central Illinois.

(IA-Z067) MUSCATINE, (IA-Z077) WASHINGTON, (IA-Z078) LOUISA, (IA-Z087) JEFFERSON, (IA-Z088) HENRY, (IA-Z089) DES MOINES, (IA-Z098) VAN BUREN, (IA-Z099) LEE

|                    |   |              |
|--------------------|---|--------------|
| 02/04/14 13:00 CST | 0 | Winter Storm |
| 02/05/14 13:00 CST | 0 |              |

## Storm Data and Unusual Weather Phenomena - February 2014

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

A large winter storm system tracked across the Midwest the evening of February 4th and morning of February 5th. This system brought a long duration snow event to the area with the heaviest snowfall amounts across southeast Iowa, northeast Missouri, and west central Illinois. Blowing and drifting snow was also common with brisk north winds.

|  |                    |  |   |                |
|--|--------------------|--|---|----------------|
| (IA-Z077) WASHINGTON, (IA-Z087) JEFFERSON, (IA-Z088) HENRY, (IA-Z089) DES MOINES, (IA-Z098) VAN BUREN, (IA-Z099) LEE | 02/17/14 04:00 CST |  | 0 | Winter Weather |
|  | 02/17/14 13:00 CST |  | 0 |                |

|   |                    |  |   |              |
|---|--------------------|--|---|--------------|
| (IA-Z040) BUCHANAN, (IA-Z052) LINN, (IA-Z054) JACKSON, (IA-Z066) CLINTON, (IA-Z068) SCOTT | 02/17/14 05:00 CST |  | 0 | Winter Storm |
|   | 02/17/14 15:00 CST |  | 0 |              |

A winter storm system moved across the Midwest on Monday February 17, Washington's Birthday Holiday (Presidents' Day), bringing periods of heavy snow, sleet, and freezing rain to the region. Widespread snowfall amounts of 2 to 6 inches were common across the area, with some locally higher and lower totals. The Quad Cities recorded its snowiest Washington's Birthday Holiday ever by measuring 5.9 inches of snow. In addition, much of Southeast Iowa, Northeast Missouri, and Western Central Illinois saw some freezing rain, which resulted in a tenth to a half an inch of ice accumulations. This caused some power outages and made travel hazardous. By late afternoon, temperatures south of Interstate 80, where the icing took place, had risen into the middle 30s to lower 40s melting much of the ice and snow.

|   |                    |  |       |                           |
|---|--------------------|--|-------|---------------------------|
| LEE COUNTY --- 3.1 E FRANKLIN [40.66, -91.44], 4.0 SSE WEVER [40.66, -91.21], 1.2 SSW FT MADISON [40.61, -91.33], 2.0 NW MONTROSE [40.55, -91.44] | 02/20/14 10:00 CST |  | 0.10M | Flood (due to Heavy Rain) |
|   | 02/20/14 19:15 CST |  | 0     | Source: Trained Spotter   |

Heavy rains of 1 to 3 inches resulted in some flooding in and around Fort Madison, IA on February 20th. Two feet of water covered Old Highway 61 west of Fort Madison. Water was flowing down streets in town. The high school was flooded with water flowing into it through doorways.

|  |                    |  |   |                                |
|--|--------------------|--|---|--------------------------------|
| WASHINGTON COUNTY --- 0.5 E WASHINGTON [41.30, -91.69] | 02/20/14 13:07 CST |  | 0 | Hail (0.75 in)                 |
|  | 02/20/14 13:07 CST |  | 0 | Source: Fire Department/Rescue |

|  |                    |  |   |                         |
|--|--------------------|--|---|-------------------------|
| JOHNSON COUNTY --- 1.5 NNE HILLS [41.57, -91.54] | 02/20/14 13:22 CST |  | 0 | Hail (0.75 in)          |
|  | 02/20/14 13:22 CST |  | 0 | Source: Trained Spotter |

|  |                    |  |   |                         |
|--|--------------------|--|---|-------------------------|
| LINN COUNTY --- 0.5 E MARION [42.03, -91.59] | 02/20/14 13:35 CST |  | 0 | Hail (1.00 in)          |
|  | 02/20/14 13:35 CST |  | 0 | Source: Law Enforcement |

Quarter sized hail fell at the intersections of Highway 13 and Highway 151.

|  |                    |  |     |                              |
|--|--------------------|--|-----|------------------------------|
| JOHNSON COUNTY --- 0.2 W UNIVERSITY HGTS [41.65, -91.57], 1.7 SE IOWA CITY [41.65, -91.53] | 02/20/14 14:00 CST |  | 10K | Thunderstorm Wind (EG 56 kt) |
|  | 02/20/14 14:00 CST |  | 0   | Source: Emergency Manager    |

Some power lines were blown down on Benton Street around 2 pm.

|   |                    |  |   |                         |
|---|--------------------|--|---|-------------------------|
| LEE COUNTY --- 1.7 WSW FT MADISON [40.62, -91.35] | 02/20/14 14:22 CST |  | 0 | Hail (0.75 in)          |
|   | 02/20/14 14:22 CST |  | 0 | Source: Trained Spotter |

|  |                    |  |   |                                |
|--|--------------------|--|---|--------------------------------|
| CEDAR COUNTY --- 2.1 W LIME CITY [41.65, -91.12] | 02/20/14 14:50 CST |  | 0 | Thunderstorm Wind (MG 53 kt)   |
|  | 02/20/14 14:50 CST |  | 0 | Source: Department of Highways |

A 61 mph gust was recorded by some IADOT equipment.

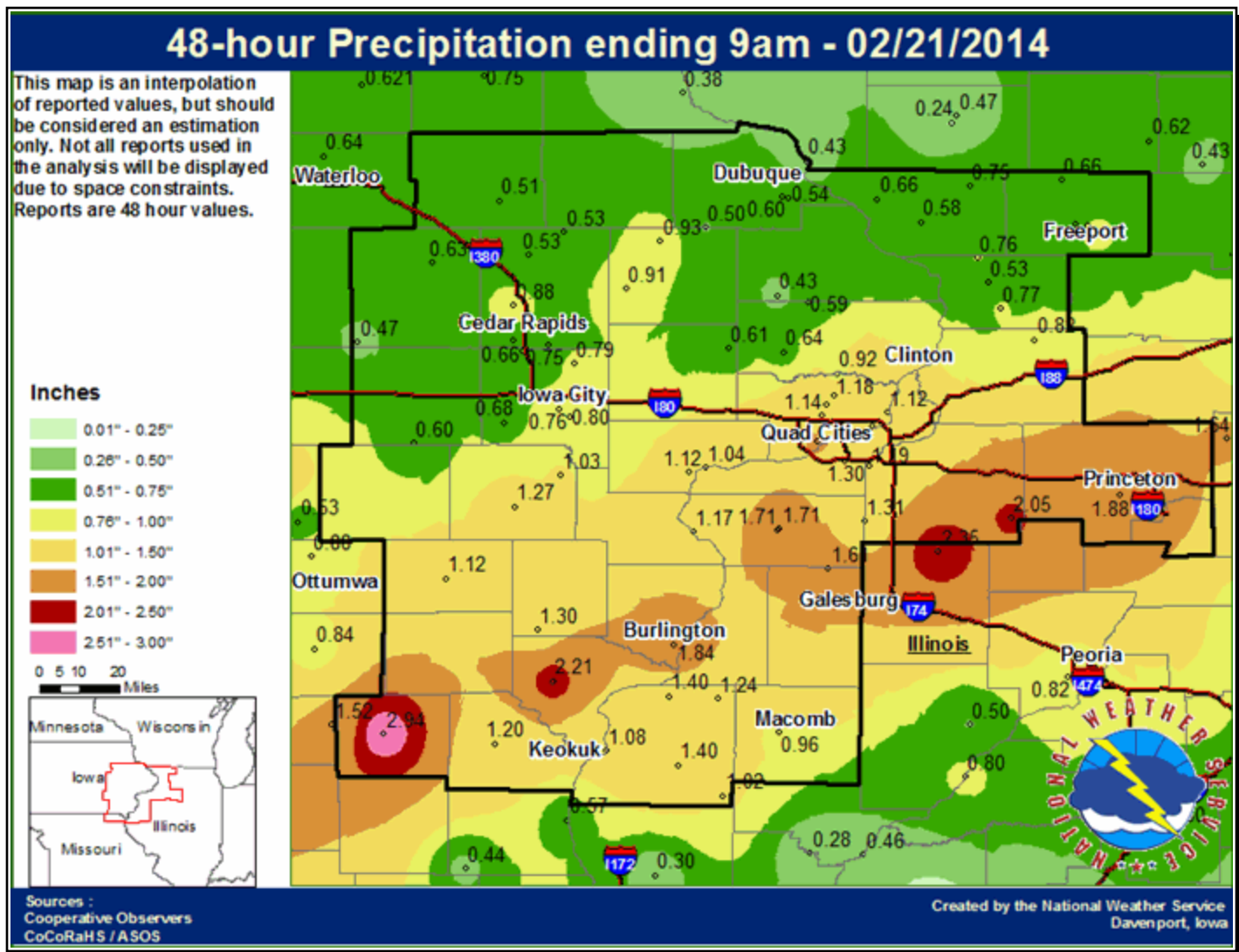
|   |
|---|
| JACKSON COUNTY --- 0.1 SE MAQUOKETA MUNI ARPT [42.05, -90.75] |
|---|

## Storm Data and Unusual Weather Phenomena - February 2014

| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|----------|--------------------|-------------------|---------------------|------------------------------|
|          | 02/20/14 15:15 CST |                   | 15K                 | Thunderstorm Wind (EG 52 kt) |
|          | 02/20/14 15:15 CST |                   | 0                   | Source: COOP Observer        |

Wind gusts estimated to be 65 mph ripped half of the shingles off of the house.

A strong low pressure system moved across the Midwest Feb. 20 bringing showers and scattered thunderstorms to Eastern Iowa, Northwest Illinois, and Northeast Missouri. Some of the storms were severe producing damaging winds and large hail. Seasonally moderate to heavy rainfall totals were observed, with amounts generally between 1 and 3 inches. The combination of frozen ground, heavy rains, and snow melt resulted in flooding in several areas. Behind the system, strong gradient winds of 25 to 40 mph were observed, with some gusts over 50 mph.



48 Hour Rainfall Ending at 9 am 2/21

DES MOINES COUNTY --- 6.4 WSW DANVILLE WILSON ARPT [40.81, -91.43], 3.2 SSW DANVILLE WILSON ARPT [40.81, -91.35], 2.5 ESE SPRING GROVE [40.71, -91.11], 5.3 SSE SPRING GROVE [40.66, -91.11]

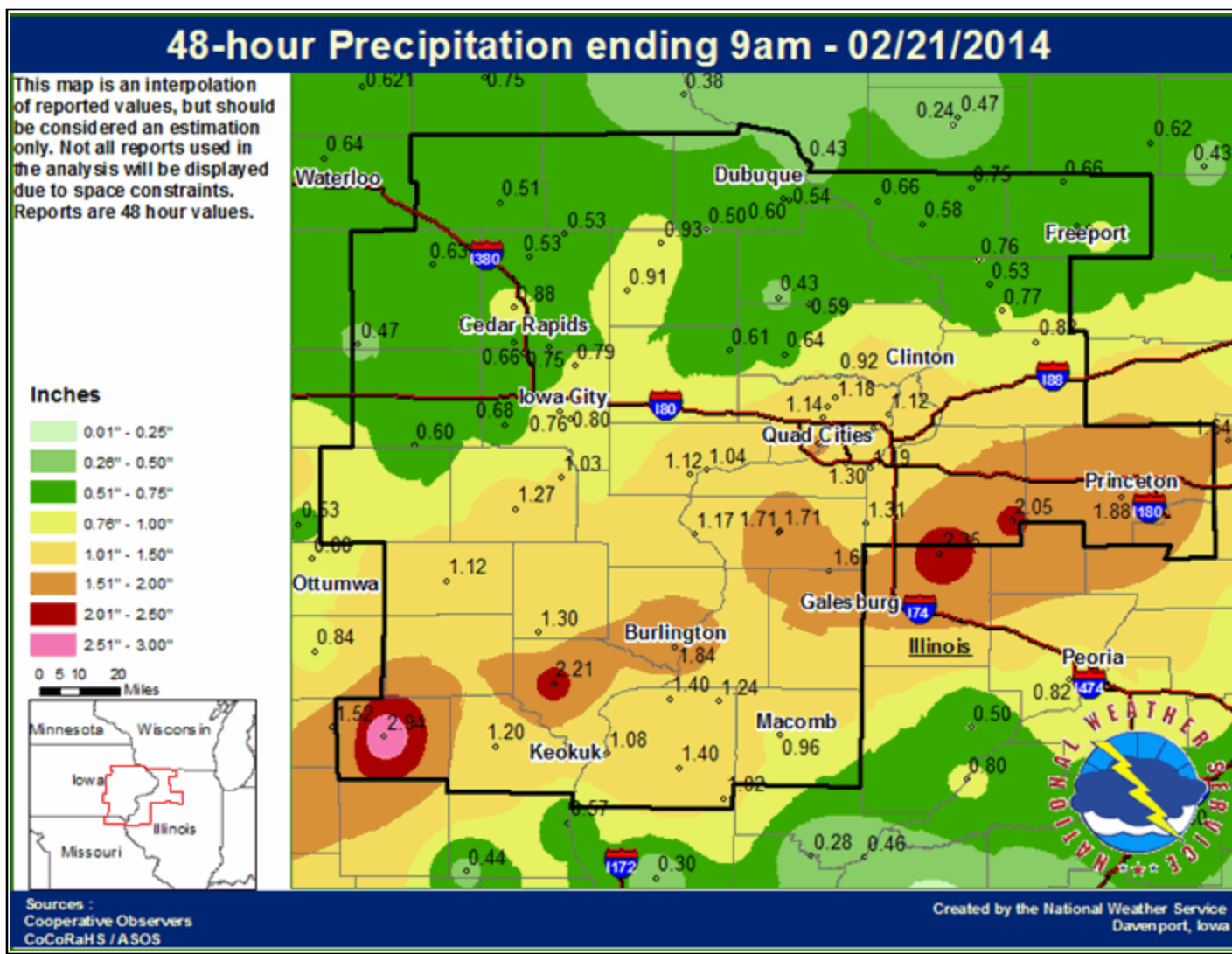
|                    |   |                           |
|--------------------|---|---------------------------|
| 02/20/14 17:30 CST | 0 | Flood (due to Ice Jam)    |
| 02/23/14 00:45 CST | 0 | Source: River/Stream Gage |

Heavy rains, melting snow and the formation of an ice jam on Feb. 19-20 resulted in the Skunk River at Augusta going above the major flood stage level of 20 feet during the early evening of February 20th. It fell below the major flood stage level during the early morning hours of February 23rd.

Heavy rains of 1 to 3 inches and melting snow on February 20th and an ice jam resulted in major river flooding on the Skunk River at Augusta, IA.

## Storm Data and Unusual Weather Phenomena - February 2014

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|



48 Hour Rainfall Totals Ending at 9 am 2/21

### MISSOURI, Northeast

(MO-Z009) SCOTLAND, (MO-Z10) CLARK

|                    |   |              |
|--------------------|---|--------------|
| 02/01/14 00:00 CST | 0 | Winter Storm |
| 02/01/14 10:00 CST | 0 |              |

A storm system moved from the southern Plains to the Great Lakes region the night of January 31st into the morning hours of February 1st. This storm system brought light snow to areas along and north of I-80, with moderate to heavy snowfall to parts of southeast Iowa, northeast Missouri, and west central Illinois. Snowfall totals ranged from 2 inches along the Highway 20 corridor to 7 inches in northeast Missouri and west central Illinois.

(MO-Z009) SCOTLAND, (MO-Z10) CLARK

|                    |   |              |
|--------------------|---|--------------|
| 02/04/14 12:00 CST | 0 | Winter Storm |
| 02/05/14 12:00 CST | 0 |              |

A large winter storm system tracked across the Midwest the evening of February 4th and morning of February 5th. This system brought a long duration snow event to the area with the heaviest snowfall amounts across southeast Iowa, northeast Missouri, and west central Illinois. Blowing and drifting snow was also common with brisk north winds.

## Storm Data and Unusual Weather Phenomena - February 2014

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

(MO-Z009) SCOTLAND, (MO-Z010) CLARK

|                    |   |                |
|--------------------|---|----------------|
| 02/17/14 04:00 CST | 0 | Winter Weather |
| 02/17/14 12:00 CST | 0 |                |

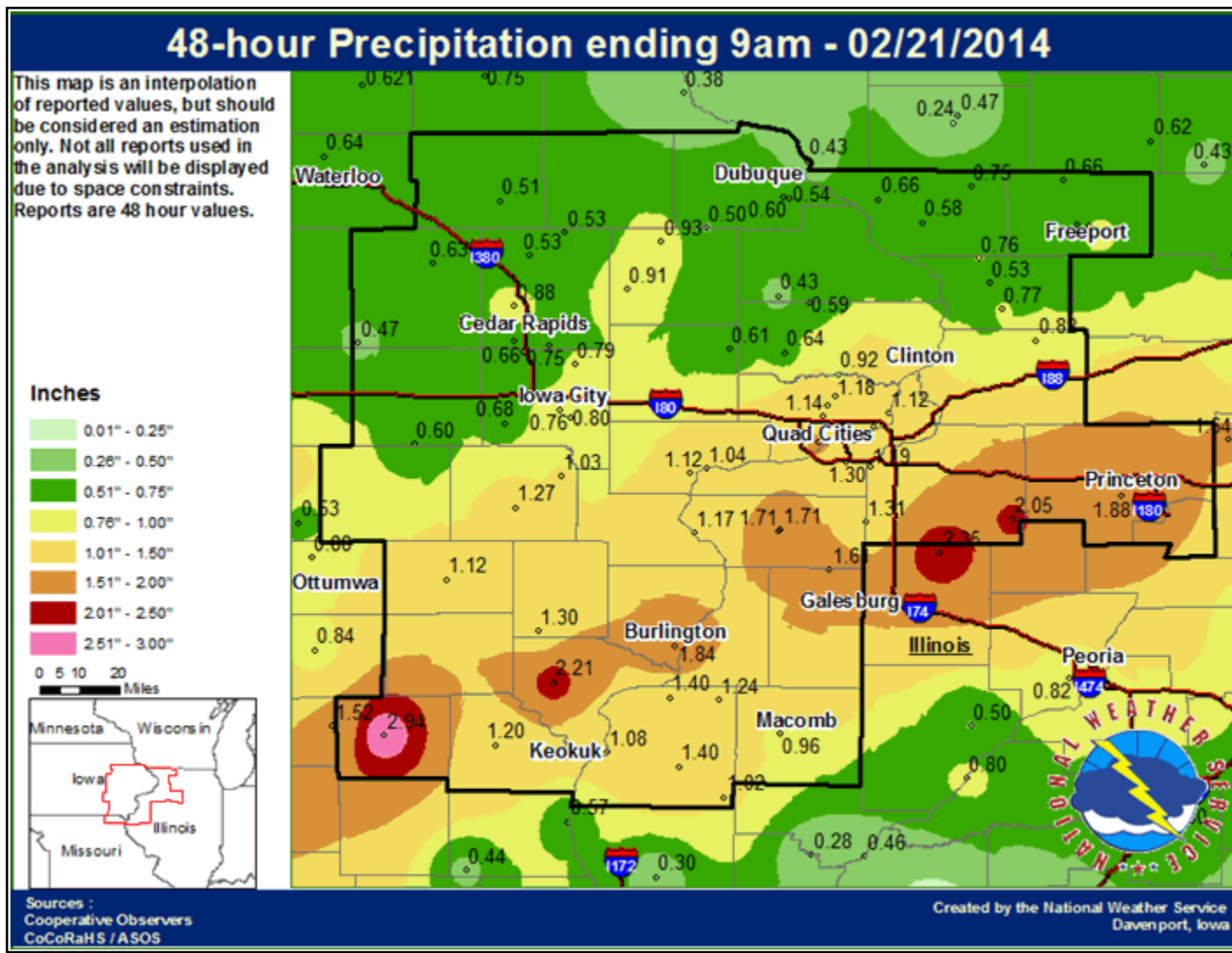
A winter storm system moved across the Midwest on Monday February 17, Washington's Birthday Holiday (Presidents' Day), bringing periods of heavy snow, sleet, and freezing rain to the region. Widespread snowfall amounts of 2 to 6 inches were common across the area, with some locally higher and lower totals. The Quad Cities recorded its snowiest Washington's Birthday Holiday ever by measuring 5.9 inches of snow. In addition, much of Southeast Iowa, Northeast Missouri, and Western Central Illinois saw some freezing rain, which resulted in a tenth to a half an inch of ice accumulations. This caused some power outages and made travel hazardous. By late afternoon, temperatures south of Interstate 80, where the icing took place, had risen into the middle 30s to lower 40s melting much of the ice and snow.

SCOTLAND COUNTY --- 0.9 WNW MEMPHIS [40.47, -92.19], 0.8 ENE MEMPHIS [40.47, -92.15], 1.9 NE SPILLMAN MOUND [40.34, -92.16], 1.5 N SPILLMAN MOUND [40.34, -92.19]

|                    |   |                           |
|--------------------|---|---------------------------|
| 02/20/14 07:15 CST | 0 | Flood (due to Heavy Rain) |
| 02/20/14 19:15 CST | 0 | Source: Law Enforcement   |

Heavy rains of 1 to 3 inches resulted in flooding across parts of Scotland County. Several roads were closed due to water flowing over them. About 10 streets in Memphis were also flooded.

Heavy rains of 1 to 3 inches on frozen ground resulted in flooding across parts of Scotland County. Several roads were closed due to water flowing over them. About 10 streets in Memphis were also flooded.



Storm Data and Unusual Weather Phenomena - February 2014

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

48 Hour Rainfall Totals Ending at 9 am 2/21